

WHAT IS CLAIMED IS:

1. An ink jet printing method comprising the steps of:
- A) providing an ink jet printer that is responsive to digital data signals;
 - B) loading said printer with ink jet recording element comprising a support having thereon an image-receiving layer comprising inorganic particles and stabilizer particles, said stabilizer particles being free of any organic solvent and comprising greater than about 80% by weight of a water-insoluble antioxidant and having a mean particle size of greater than about 5 nm, said inorganic particles comprising greater than about 50% by weight of said image-receiving layer;
 - C) loading said printer with an ink jet ink composition; and
 - D) printing on said image-receiving layer using said ink jet ink composition in response to said digital data signals.

2. The recording element of Claim 1 which contains a base layer between said support and said image-receiving layer.

3. The recording element of Claim 2 wherein said base layer comprises inorganic particles and stabilizer particles, said stabilizer particles being free of any organic solvent and comprising greater than about 80% by weight of a water-insoluble antioxidant and having a mean particle size of greater than about 5 nm, said inorganic particles comprising greater than about 50% by weight of said base layer

4. The method of Claim 2 wherein said base layer also contains a binder in an amount of from about 5 to about 20 weight %.

5. The method of Claim 2 wherein said support is coated with said base layer and said image-receiving layer and is then calendered.

6. The method of Claim 1 wherein said inorganic particles comprise calcium carbonate, magnesium carbonate, kaolin, clay, talc, calcium sulfate, barium sulfate, titanium dioxide, zinc oxide, zinc hydroxide, zinc carbonate, aluminum silicate, calcium silicate, magnesium silicate, synthetic amorphous silica, fumed silica, colloidal silica, silica gel, alumina gel, fumed alumina, colloidal alumina, pseudo-boehmite, or zeolite.

7. The method of Claim 1 wherein said inorganic particles have a mean particle size of from about 50 to about 500 nm.

8. The method of Claim 1 wherein said image-receiving layer also contains a binder in an amount of from about 5 to about 20 weight %.

9. The method of Claim 8 wherein said binder is a hydrophilic polymer.

10. The method of Claim 8 wherein said binder is a core/shell latex.

11. The method of Claim 1 wherein said antioxidant comprises a substituted phenol, aromatic amine, piperidine-based amine, mercaptan, organic sulfide or organic phosphate.

12. The method of Claim 1 wherein said stabilizer particles have a mean size of from about 5 nm to 500 nm.

13. The method of Claim 1 wherein said image-receiving layer contains said stabilizer particles in an amount of from about 10 mg/m² to about 5 g/m².

14. The method of Claim 1 wherein said stabilizer particle also contains a dispersant or surfactant.

2/3
B1

TELETYPE UNIT

Sub
B1

15. The method of Claim 14 wherein said dispersant or surfactant is present in said stabilizer particle up to about 20% by weight.

ADD
B2

FOR
RECEIVING